



**Quarles & Brady** LLC

05-30-00

Citicor  
Suite 3700  
500 West Madison Street  
Chicago, Illinois 60661-2511

GAU 2764  
312/715-5000  
FAX 312/715-5155

#12

Gregory M. Smith  
Direct Dial: 312-715-5079  
E-Mail: gms@quarles.com

RECEIVED

JUN 02 2000

Group 2700

May 26, 2000

VIA EXPRESS MAIL

Assistant Commissioner for Patents  
Washington, DC 20231

Re: Application Number: 09/028,718  
Filing Date: February 24, 1998  
First Named Inventor: Cairns, Laurie  
Group Art Unit: 2764  
Attorney Docket No.: 310703-90015

Dear Sir:

Please find enclosed the following for filing in the above-referenced application.

- Fee Transmittal Form
- Revocation of Power of Attorney or Authorization of Agent
- Power of Attorney or Authorization of Agent, Not Accompanying Application
- Finalized Drawings (2 pages)
- Information Disclosure Statement Pursuant to 37 CFR 1.97(d)

In addition, please find enclosed a return postcard. Please date-stamp the postcard and return it to indicate receipt of the enclosures.

Respectfully submitted,

*Gregory M. Smith*

Gregory M. Smith  
Registration No. 43,136

Enclosures

GMS/gms

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service by Express Mail No. EL302467187US in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231, on May 26, 2000.

*Gregory M. Smith*  
Gregory M. Smith

**OFFICE OF THE COMMISSIONER OF PATENT AND TRADEMARKS**

**FREE TRANSMITTAL**

**for FY 2000**

Patent fees are subject to annual revision.  
Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid.  
See Forms PTO/SB/09-12.  
See 37 C.F.R. §§ 1.27 and 1.28.

**TOTAL AMOUNT OF PAYMENT** \$ 845.00

**Complete & Known OK to Enter**

**Application Number** 09/028,718

**Filing Date** February 24, 1998

**First Named Inventor** Cairns, Laurie

**Examiner Name** John L. Young

**Group/Art Unit** 2764

**Attorney Docket No.** 310703-90015

**RECEIVED**

**JUN 02 2000**

**Group 2700**

METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)																																																																																																																																																																															
<b>1.</b> <input checked="" type="checkbox"/> The commissioner is hereby authorized to charge indicated fees and credit any overpayments to:  <b>Deposit Account Number</b> 17-0055  <b>Deposit Account Name</b> Quarles & Brady LLP  <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17		<b>3. ADDITIONAL FEES</b>  <table border="1" style="width:100%"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge-late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge-late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2520</td><td>147</td><td>2520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1840*</td><td>113</td><td>1840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>380</td><td>216</td><td>190</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>870</td><td>217</td><td>435</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1360</td><td>218</td><td>680</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1850</td><td>228</td><td>925</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>300</td><td>219</td><td>150</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>300</td><td>220</td><td>150</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>260</td><td>221</td><td>130</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1510</td><td>138</td><td>1510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>141</td><td>1210</td><td>241</td><td>605</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1210</td><td>242</td><td>605</td><td>Utility issue fee (or reissue)</td><td>605</td></tr> <tr><td>143</td><td>430</td><td>243</td><td>215</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>580</td><td>244</td><td>290</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Stmt</td><td>240</td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>690</td><td>246</td><td>345</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td></td></tr> <tr><td>149</td><td>690</td><td>249</td><td>345</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td></td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td></td></tr> <tr> <td colspan="5" style="text-align:right"><b>SUBTOTAL (3) (\$)</b></td> <td>845</td> </tr> </tbody> </table>		Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge-late filing fee or oath		127	50	227	25	Surcharge-late provisional filing fee or cover sheet		139	130	139	130	Non-English specification		147	2520	147	2520	For filing a request for reexamination		112	920*	112	920*	Requesting publication of SIR prior to Examiner action		113	1840*	113	1840*	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for reply within first month		116	380	216	190	Extension for reply within second month		117	870	217	435	Extension for reply within third month		118	1360	218	680	Extension for reply within fourth month		128	1850	228	925	Extension for reply within fifth month		119	300	219	150	Notice of Appeal		120	300	220	150	Filing a brief in support of an appeal		121	260	221	130	Request for oral hearing		138	1510	138	1510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive - unavoidable		141	1210	241	605	Petition to revive - unintentional		142	1210	242	605	Utility issue fee (or reissue)	605	143	430	243	215	Design issue fee		144	580	244	290	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Petitions related to provisional applications		126	240	126	240	Submission of Information Disclosure Stmt	240	581	40	581	40	Recording each patent assignment per property (times number of properties)		146	690	246	345	Filing a submission after final rejection (37 CFR § 1.129(a))		149	690	249	345	For each additional invention to be examined (37 CFR § 1.129(b))		Other fee (specify) _____						<b>SUBTOTAL (3) (\$)</b>					845
Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																												
105	130	205	65	Surcharge-late filing fee or oath																																																																																																																																																																													
127	50	227	25	Surcharge-late provisional filing fee or cover sheet																																																																																																																																																																													
139	130	139	130	Non-English specification																																																																																																																																																																													
147	2520	147	2520	For filing a request for reexamination																																																																																																																																																																													
112	920*	112	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																													
113	1840*	113	1840*	Requesting publication of SIR after Examiner action																																																																																																																																																																													
115	110	215	55	Extension for reply within first month																																																																																																																																																																													
116	380	216	190	Extension for reply within second month																																																																																																																																																																													
117	870	217	435	Extension for reply within third month																																																																																																																																																																													
118	1360	218	680	Extension for reply within fourth month																																																																																																																																																																													
128	1850	228	925	Extension for reply within fifth month																																																																																																																																																																													
119	300	219	150	Notice of Appeal																																																																																																																																																																													
120	300	220	150	Filing a brief in support of an appeal																																																																																																																																																																													
121	260	221	130	Request for oral hearing																																																																																																																																																																													
138	1510	138	1510	Petition to institute a public use proceeding																																																																																																																																																																													
140	110	240	55	Petition to revive - unavoidable																																																																																																																																																																													
141	1210	241	605	Petition to revive - unintentional																																																																																																																																																																													
142	1210	242	605	Utility issue fee (or reissue)	605																																																																																																																																																																												
143	430	243	215	Design issue fee																																																																																																																																																																													
144	580	244	290	Plant issue fee																																																																																																																																																																													
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																													
123	50	123	50	Petitions related to provisional applications																																																																																																																																																																													
126	240	126	240	Submission of Information Disclosure Stmt	240																																																																																																																																																																												
581	40	581	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																													
146	690	246	345	Filing a submission after final rejection (37 CFR § 1.129(a))																																																																																																																																																																													
149	690	249	345	For each additional invention to be examined (37 CFR § 1.129(b))																																																																																																																																																																													
Other fee (specify) _____																																																																																																																																																																																	
<b>SUBTOTAL (3) (\$)</b>					845																																																																																																																																																																												
<b>2.</b> <input type="checkbox"/> Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other																																																																																																																																																																																	
<b>FEE CALCULATION</b>  <b>1. BASIC FILING FEE</b> <table border="1" style="width:100%"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td></td></tr> <tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr> <tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr> <tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr> <tr> <td colspan="5" style="text-align:right"><b>SUBTOTAL (1) (\$)</b></td> <td></td> </tr> </tbody> </table>		Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid	101	690	201	345	Utility filing fee		106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		<b>SUBTOTAL (1) (\$)</b>																																																																																																																																											
Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																												
101	690	201	345	Utility filing fee																																																																																																																																																																													
106	310	206	155	Design filing fee																																																																																																																																																																													
107	480	207	240	Plant filing fee																																																																																																																																																																													
108	690	208	345	Reissue filing fee																																																																																																																																																																													
114	150	214	75	Provisional filing fee																																																																																																																																																																													
<b>SUBTOTAL (1) (\$)</b>																																																																																																																																																																																	
<b>2. EXTRA CLAIM FEES</b>  <b>Total Claims</b> <input type="text"/> - 20** = <input type="text"/> X <input type="text"/> = <input type="text"/> <b>Independent Claims</b> <input type="text"/> - 3** = <input type="text"/> X <input type="text"/> = <input type="text"/> <b>Multiple Dependent</b> <input type="text"/> = <input type="text"/> <b>** or number previously paid, if greater; For Reissues, see below</b> <table border="1" style="width:100%"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>109</td><td>78</td><td>209</td><td>39</td><td>**Reissue independent claims over original patent</td><td></td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>**Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr> <td colspan="5" style="text-align:right"><b>SUBTOTAL (2) (\$)</b></td> <td></td> </tr> </tbody> </table>		Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	**Reissue independent claims over original patent		110	18	210	9	**Reissue claims in excess of 20 and over original patent		<b>SUBTOTAL (2) (\$)</b>																																																																																																																																											
Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																												
103	18	203	9	Claims in excess of 20																																																																																																																																																																													
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																													
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																													
109	78	209	39	**Reissue independent claims over original patent																																																																																																																																																																													
110	18	210	9	**Reissue claims in excess of 20 and over original patent																																																																																																																																																																													
<b>SUBTOTAL (2) (\$)</b>																																																																																																																																																																																	

SUBMITTED BY		Complete (if applicable)	
<b>Name (Print/Type)</b>	Gregory M. Smith	<b>Registration No. (Attorney/Agent)</b>	43,136
<b>Signature</b>	<i>Gregory M. Smith</i>	<b>Telephone</b>	312-715-5079
		<b>Date</b>	5/26/00